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Amendments to the Claims

1. (Currently Amended) A method of identifying and managing network elements in a communication system, the method comprising the steps of:

representing a network element feature as a logical entity;

defining one or more characteristics associated with the network element, the which characteristics are related to functional attributes of the network element with respect to the communication system; and

defining one or more profiles for each characteristic, the one or more profiles assigning specific values to said each characteristic.

- 2. (Original) The method of claim1 wherein the communication system comprises a SONET ring network, and wherein the network elements comprise network interface devices or transmission links between network interface devices.
- 3. (Original) The method of claim 2 wherein the network element feature is a network hardware device.

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4. (Original) The method of claim 2 wherein the network element feature is a data signal.

5. (Original) The method of claim 1 wherein each network element of

the communication system is assigned a profile of the one or more profiles.

6. (Original) The method of claim 5 wherein the one or more

characteristics comprise failure conditions associated with the network elements,

and wherein the one or more profiles define alarm levels generated for each

failure condition.

7. (Original) The method of claim 6 wherein the alarm levels indicate

a type of alarm transmitted to a network administrator of the communication

system if a corresponding failure condition is detected by the network element

represented by the logical entity.

8. (Original) The method of claim 5 wherein the one or more

characteristics comprise performance characteristics associated with the

network elements, and wherein the one or more profiles define alert levels

generated for each performance characteristic.

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9. (Original) The method of claim 8 wherein the alert levels indicate

a type of alert transmitted to a network administrator of the communication

system if a corresponding performance measurement is detected by the network

element represented by the logical entity.

10. (Original) The method of claim 5 wherein the one or more

characteristics comprise user characteristics associated with users of the

network elements, and wherein the one or more profiles define user attributes for

each user.

11. (Currently Amended) A network node for use in a communication

network, the network node comprising:

means for representing a feature of the network node a logical entity;

means for defining one or more characteristics associated with the

network node, thewhich characteristics are related to functional attributes of the

network element with respect to the communication network; and

means for defining one or more profiles for each characteristic, the one or

more profiles assigning specific values to said each characteristic.

12. (Original) The network node of claim 11 wherein the

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communications network comprises a SONET network and wherein the

network node comprises one of a network interface device and a transmission

link between network interface devices coupled to the communications

network.

13. (Original) The network node of claim 12 wherein the feature of

the network node is a network hardware device.

14. (Original) The network node of claim 12 wherein the feature of

the network node is a data signal.

15. (Original) The network node of claim 11 wherein the network

node is assigned a profile of the one or more profiles.

16. (Original) The network node of claim 15 wherein the one or more

characteristics comprise failure conditions associated with the network node,

and wherein the one or more profiles define alarm levels generated for each

failure condition.

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17. (Original) The network node of claim 16 wherein the alarm levels

indicate a type of alarm transmitted to a network administrator of the

communication network if a corresponding failure condition is detected by the

network element represented by the logical entity.

18. (Original) The network node of claim 15 wherein the one or more

characteristics comprise performance characteristics associated with the

network node, and wherein the one or more profiles define alert levels

generated for each performance characteristic.

19. (Original) The network node of claim 18 wherein the alert levels

indicate a type of alert transmitted to a network administrator of the

communication system if a corresponding performance measurement is

detected by the network element represented by the logical entity.

20. (Original) The network node of claim 15 wherein the one or more

characteristics comprise user characteristics associated with a user of the

network node.

21. (New) The method of claim 1, further including modifying the one or

more profiles for said each characteristic according to a user preference

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22. (New) The network node of claim 11, further including means for modifying the one or more profiles for said each characteristic according to a user preference.